





DATE: 03/31/2000 TIME: 09:44:10

INPUT SET: S35194.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

_	SEQUENCE LISTING			
2 3 4	(1) General I	nformation:	ENITEDE	
5 6 7 8	(i) APPL	ICANT: Hillman, Jennifer I Corley, Neil C. Guegler, Karl J. Patterson, Chandra	ENTERED	
9		Baughn, Mariah		
10 11 12	(ii) TITL	E OF INVENTION: HUMAN APOR	PTOSIS ASSOCIATED PROTEINS	
13 14	(iii) NUM	BER OF SEQUENCES: 12		
15		ESPONDENCE ADDRESS:		
16		RESSEE: Incyte Pharmaceuti	icals, Inc.	
17		EET: 3174 Porter Dr.		
18		Y: Palo Alto		
19	(D) STA			
20	' '	NTRY: USA		
21	(F) ZIP	: 94304		
22				
23	<b>,</b> ,	TER READABLE FORM:		
24	, ,	IUM TYPE: Diskette		
25	` '	PUTER: IBM Compatible		
26		RATING SYSTEM: DOS		
27	(D) SOF	TWARE: FastSEQ for Windows	s version 2.0	
28	( distance of the company	num application pama.		
29		ENT APPLICATION DATA:	10	
30		LICATION NUMBER: 09/471,74		
31 32	(B) FIL	ING DATE:		
33	/wii) BRT	OD ADDITCATION DATA.		
34	• •	OR APPLICATION DATA: LICATION NUMBER: 09/078,4	102	
35		ING DATE:	102	
36	(B) FIL	ING DATE:		
37	(wiii) Arr	ORNEY/AGENT INFORMATION:		
38	, ,	E: Cerrone, Michael C.		
39		ISTRATION NUMBER: 39,132		
40		ERENCE/DOCKET NUMBER: PF-0	)519 US	
41	(0) REF	BREMOD, BOOKET MONDER. 11 0	,01,00	
42	(ix) TELE	COMMUNICATION INFORMATION:	· •	
43	, ,	EPHONE: 650-855-0555		
44		EFAX: 650-845-4166	•	
45	(-, 122			
46	(2) IN	FORMATION FOR SEQ ID NO:1:	•	

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#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/471,749

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INPUT SET: S35194.raw

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48
            (i) SEQUENCE CHARACTERISTICS:
49
              (A) LENGTH: 480 amino acids
50
              (B) TYPE: amino acid
51
              (C) STRANDEDNESS: single
52
              (D) TOPOLOGY: linear
53
            (vii) IMMEDIATE SOURCE:
54
55
               (A) LIBRARY: THP1PLB02
56
               (B) CLONE: 157658
57
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58
59
60
     Met Ser Ala Glu Val Ile His Gln Val Glu Glu Ala Leu Asp Thr Asp
61
62
     Clu Lys Glu Met Leu Leu Phe Leu Cys Arg Asp Val Ala Ile Asp Val
63
64
                                      25
     Val Pro Pro Asn Val Arg Asp Leu Leu Asp Ile Leu Arg Glu Arg Gly
65
66
                                  40
     Lys Leu Ser Val Gly Asp Leu Ala Glu Leu Leu Tyr Arg Val Arg Arg
67
68
                              55
     Phe Asp Leu Leu Lys Arg Ile Leu Lys Met Asp Arg Lys Ala Val Glu
69
70
                         70
                                              75
     Thr His Leu Leu Arg Asn Pro His Leu Val Ser Asp Tyr Arg Val Leu
71
72
                                          90
73
     Met Ala Glu Ile Gly Glu Asp Leu Asp Lys Ser Asp Val Ser Ser Leu
                                      105
74
     Ile Phe Leu Met Lys Asp Tyr Met Gly Arg Gly Lys Ile Ser Lys Glu
75
76
                                  120
77
     Lys Ser Phe Leu Asp Leu Val Val Glu Leu Glu Lys Leu Asn Leu Val
78
                             135
                                                  140
     Ala Pro Asp Gln Leu Asp Leu Leu Glu Lys Cys Leu Lys Asn Ile His
79
                         150
80
                                              155
     Arg Ile Asp Leu Lys Thr Lys Ile Gln Lys Tyr Lys Gln Ser Val Gln
81
                                          170
82
                      165
     Gly Ala Gly Thr Ser Tyr Arg Asn Val Leu Gln Ala Ala Ile Gln Lys
83
84
                                      185
85
     Ser Leu Lys Asp Pro Ser Asn Asn Phe Arg Leu His Asn Gly Arg Ser
86
             195
                                  200.
     Lys Glu Gln Arg Leu Lys Glu Gln Leu Gly Ala Gln Glu Pro Val
87
88
                              215
     Lys Lys Ser Ile Gln Glu Ser Glu Ala Phe Leu Pro Gln Ser Ile Pro
89
90
                          230
                                              235
     Glu Glu Arg Tyr Lys Met Lys Ser Lys Pro Leu Gly Ile Cys Leu Ile
91
92
                                          250
                      245
93
     Ile Asp Cys Ile Gly Asn Glu Thr Glu Leu Leu Arg Asp Thr Phe Thr
94
                                      265
     Ser Leu Gly Tyr Glu Val Gln Lys Phe Leu His Leu Ser Met His Gly
95
96
                                  280
     Ile Ser Gln Ile Leu Gly Gln Phe Ala Cys Met Pro Glu His Arg Asp
97
98
                              295
     Tyr Asp Ser Phe Val Cys Val Leu Val Ser Arg Gly Gly Ser Gln Ser
99
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## RAW SEQUENCE LISTING PATENT APPLICATION US/09/471,749

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INPUT SET: S35194.raw

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100
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101
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                                           330
102
                       325
      Arg Arg Met Phe Met Gly Asp Ser Cys Pro Tyr Leu Ala Gly Lys Pro
103
                                       345
104
                   340
      Lys Met Phe Phe Ile Gln Asn Tyr Val Val Ser Glu Gly Gln Leu Glu
105
                                   360
                                                        365
106
               355
      Asp Ser Ser Leu Leu Glu Val Asp Gly Pro Ala Met Lys Asn Val Glu
107
108
                               375
                                                   380
109
      Phe Lys Ala Gln Lys Arg Gly Leu Cys Thr Val His Arg Glu Ala Asp
110
                           390
                                               395
      Phe Phe Trp Ser Leu Cys Thr Ala Asp Met Ser Leu Leu Glu Gln Ser
111
112
                       405
                                           410
113
      His Ser Ser Pro Ser Leu Tyr Leu Gln Cys Leu Ser Gln Lys Leu Arg
114
                   420
                                       425
                                                            430
      Gln Glu Arg Lys Arg Pro Leu Leu Asp Leu His Ile Glu Leu Asn Gly
115
116
              435
                                   440
                                                        445
      Tyr Met Tyr Asp Trp Asn Ser Arg Val Ser Ala Lys Glu Lys Tyr Tyr
117
118
                              455
                                                   460
      Val Trp Leu Gln His Thr Leu Arg Lys Leu Ile Leu Ser Tyr Thr
119
120
                           470
                                               475
121
                (2) INFORMATION FOR SEQ ID NO:2:
122
123
            (i) SEQUENCE CHARACTERISTICS:
124
125
               (A) LENGTH: 2352 base pairs
126
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
127
128
               (D) TOPOLOGY: linear
129
            (vii) IMMEDIATE SOURCE:
130
               (A) LIBRARY: THP1PLB02
131
                (B) CLONE: 157658
132
133
134
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
135
      GAAATTGCGC CACTGCACTC CAGCCTGGGC CACAGAGCGA GACTCTGTCT CAAAAAAGAA
136
      GGAAAGAAAG AAAGAAAAA AAAAACACTC GCAGTGTTTA CTCCTAACGC GTGGAACTTG
137
                                                                             120
      TGTCGACATC CACCCCGGT TACTGCATAC TCAGTCACAC AAGCCATAGC AGGAAACAGC
138
                                                                             180
139
      GAGCTTGCAG CCTCACCGAC GAGTCTCAAC TAAAAGGGAC TCCCGGAGCT AGGGGTGGGG
                                                                             240
140
      ACTCGGCCTC ACACAGTGAG TGCCGGCTAT TGGACTTTTG TCCAGTGACA GCTGAGACAA
                                                                             300
      CAAGGACCAC GGGAGGAGGT GTAGGAGAGA AGCGCCGCGA ACAGCGATCG CCCAGCACCA
                                                                             360
141
      AGTCCGCTTC CAGGCTTTCG GTTTCTTTGC CTCCATCTTG GGTGCGCCTT CCCGGCGTCT
                                                                             420
142
      AGGGGAGCGA AGGCTGAGGT GGCAGCGGCA GGAGAGTCCG GCCGCGACAG GACGAACTCC
                                                                             480
143
      CCCACTGGAA AGGATTCTGA AAGAAATGAA GTCAGCCCTC AGAAATGAAG TTGACTGCCT
                                                                             540
144
      GCTGGCTTTC TGTTGACTGG CCCGGAGCTG TACTGCAAGA CCCTTGTGAG CTTCCCTAGT
145
      CTAAGAGTAG GATGTCTGCT GAAGTCATCC ATCAGGTTGA AGAAGCACTT GATACAGATG
                                                                             660
146
      AGAAGGAGAT GCTGCTCTTT TTGTGCCGGG ATGTTGCTAT AGATGTGGTT CCACCTAATG
                                                                             720
147
148
      TCAGGGACCT TCTGGATATT TTACGGGAAA GAGGTAAGCT GTCTGTCGGG GACTTGGCTG
149
      AACTGCTCTA CAGAGTGAGG CGATTTGACC TGCTCAAACG TATCTTGAAG ATGGACAGAA
      AAGCTGTGGA GACCCACCTG CTCAGGAACC CTCACCTTGT TTCGGACTAT AGAGTGCTGA
150
151
      TGGCAGAGAT TGGTGAGGAT TTGGATAAAT CTGATGTGTC CTCATTAATT TTCCTCATGA
                                                                             960
      AGGATTACAT GGGCCGAGGC AAGATAAGCA AGGAGAAGAG TTTCTTGGAC CTTGTGGTTG
152
                                                                            1020
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198

199 200

201 202

203 204

205

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/471,749

DATE: 03/31/2000 TIME: 09:44:11

INPUT SET: \$35194.raw

	INPUT SET: \$35194.1	raw
153	AGTTGGAGAA ACTAAATCTG GTTGCCCCAG ATCAACTGGA TTTATTAGAA AAATGCCTAA	L080
154	AGAACATCCA CAGAATAGAC CTGAAGACAA AAATCCAGAA GTACAAGCAG TCTGTTCAAG	L140
155	GAGCAGGGAC AAGTTACAGG AATGTTCTCC AAGCAGCAAT CCAAAAGAGT CTCAAGGATC	L200
156	CTTCAAATAA CTTCAGGCTC CATAATGGGA GAAGTAAAGA ACAAAGACTT AAGGAACAGC 1	L260
157	TTGGCGCTCA ACAAGAACCA GTGAAGAAAT CCATTCAGGA ATCAGAAGCT TTTTTGCCTC	1320
158	AGAGCATACC TGAAGAGAGA TACAAGATGA AGAGCAAGCC CCTAGGAATC TGCCTGATAA 1	1380
159		L440
160		L500
161	CCTGTATGCC CGAGCACCGA GACTACGACA GCTTTGTGTG TGTCCTGGTG AGCCGAGGAG 1	1560
162	GCTCCCAGAG TGTGTATGGT GTGGATCAGA CTCACTCCGG GCTCCCCCTG CATCACATCA	1620
163		1680
164	TTCAGAACTA TGTGGTGTCA GAGGGCCAGC TGGAGGACAG CAGCCTCTTG GAGGTGGATG	1740
165	GGCCAGCGAT GAAGAATGTG GAATTCAAGG CTCAGAAGCG AGGGCTGTGC ACAGTTCACC	1800
166	GAGAAGCTGA CTTCTTCTGG AGCCTGTGTA CTGCGGACAT GTCCCTGCTG GAGCAGTCTC 1	1860
167	ACAGCTCACC ATCCCTGTAC CTGCAGTGCC TCTCCCAGAA ACTGAGACAA GAAAGAAAAC 1	920
168	GCCCACTCCT GGATCTTCAC ATTGAACTCA ATGGCTACAT GTATGATTGG AACAGCAGAG 1	980
169	TTTCTGCCAA GGAGAAATAT TATGTCTGGC TGCAGCACAC TCTGAGAAAG AAACTTATCC 2	2040
170	TCTCCTACAC ATAAGAAACC AAAAGGCTGG GCGTAGTGGC TCACACCTGT GATCCCAGCA 2	2100
171	CTTTGGGAGG CCAAGGAGGG CAGATCACTT CAGGTCAGGA GTTCGAGACC AGCCTGGCCA 2	2160
172	ACATGGTAAA CGCTGTCCCT AGTAAAAATA CAAAAATTAG CTGGGTGTGG GTGTGGGTAC 2	2220
173	CTGTATTCCC AGTTACTTGG GAGGCTGAGG TGGGAGGATC TTTTGAACCC AGGAGTTCAG 2	2280
174	GGTCATAGCA TGCTGTGATT GTGCCTACGA ATAGCCACTG CATACCAACC TGGGCAATAT 2	2340
175	AGCAAGATCC CA	2352
176		
177	(2) INFORMATION FOR SEQ ID NO:3:	
178		
179	(i) SEQUENCE CHARACTERISTICS:	
180	(A) LENGTH: 238 amino acids	
181	(B) TYPE: amino acid	
182	(C) STRANDEDNESS: single	
183	(D) TOPOLOGY: linear	
184		
185	(vii) IMMEDIATE SOURCE:	
186	(A) LIBRARY: BRSTNOT03	
187	(B) CLONE: 642272	
188		
189	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
190		
191	Met Glu Tyr Ala Met Lys Ser Leu Ser Leu Leu Tyr Pro Lys Ser Leu	
192	1 5 10 15	
193	Ser Arg His Val Ser Val Arg Thr Ser Val Val Thr Gln Gln Leu Leu	
194	20 25 30	
195	Ser Glu Pro Ser Pro Lys Ala Pro Arg Ala Arg Pro Cys Arg Val Ser	
196	35 40 45	
197	Thr Ala Asp Arg Ser Val Arg Lys Gly Ile Met Ala Tyr Ser Leu Glu	
100	FG	

55

70

Asp Leu Leu Lys Val Arg Asp Thr Leu Met Leu Ala Asp Lys Pro

Phe Phe Leu Val Leu Glu Glu Asp Gly Thr Thr Val Glu Thr Glu Glu

Tyr Phe Gln Ala Leu Ala Gly Asp Thr Val Phe Met Val Leu Gln Lys

100 105 110
Gly Gln Lys Trp Gln Pro Pro Ser Glu Gln Gly Thr Arg His Pro Leu

90

60

AATTATTGAG GCTGAAAAAA AAAA

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/471,749

DATE: 03/31/2000 TIME: 09:44:12

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206
              115
                                   120
                                                       125
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207
208
                              135
                                                   140
      Phe Asp Leu Tyr Lys Leu Asn Pro Gln Asp Phe Ile Gly Cys Leu Asn
209
210
                           150
                                               155
      Val Lys Ala Thr Phe Tyr Asp Thr Tyr Ser Leu Ser Tyr Asp Leu His
211
212
                       165
                                           170
                                                               175
      Cys Cys Gly Ala Lys Arg Ile Met Lys Glu Ala Phe Arg Trp Ala Leu
213
214
                                       185
                                                           190
      Phe Ser Met Gln Ala Thr Gly His Val Leu Leu Gly Thr Ser Cys Tyr
215
216
                                   200
      Leu Gln Gln Leu Leu Asp Ala Thr Glu Glu Gly Gln Pro Pro Lys Gly
217
218
                              215
      Lys Ala Ser Ser Leu Ile Pro Thr Cys Leu Lys Ile Leu Gln
219
                          230
220
                                               235
221
               (2) INFORMATION FOR SEQ ID NO:4:
222
223
224
            (i) SEQUENCE CHARACTERISTICS:
225
              (A) LENGTH: 1284 base pairs
              (B) TYPE: nucleic acid
226
              (C) STRANDEDNESS: single
227
228
              (D) TOPOLOGY: linear
229
230
           (vii) IMMEDIATE SOURCE:
231
               (A) LIBRARY: BRSTNOT03
232
               (B) CLONE: 642272
233
234
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
235
      AATGTTCTTT TGGCCACTGT GAAGCCTCAG GAAGGGGCTC GGATTGCTCA AGGACCCATG
                                                                             60
236
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                                                                             120
237
      GCAGTCCAGC TGACAAGGAT GGAATACGCC ATGAAGTCCC TTAGCCTTCT CTACCCCAAG
                                                                             180
238
239
      TCCCTCTCCA GGCATGTGTC AGTGCGTACC TCTGTGGTGA CCCAGCAGCT GCTGTCGGAG
                                                                             240
      CCCAGCCCA AGGCCCCAG GGCCCGGCCC TGCCGCGTAA GCACGGCGGA TCGAAGCGTG
240
                                                                             300
      AGGAAGGGCA TCATGGCTTA CAGTCTTGAG GACCTCCTCC TCAAGGTCCG GGACACTCTG
                                                                             360
241
      ATGCTGGCAG ACAAGCCCTT CTTCCTGGTG CTGGAGGAAG ATGGCACAAC TGTAGAGACA
                                                                             420
242
      GAAGAGTACT TCCAAGCCCT GGCAGGGGAT ACAGTGTTCA TGGTCCTCCA GAAGGGGCAG
243
                                                                             480
      ANATGGCAGC CCCCATCAGA ACAGGGGACA AGGCACCCAC TGTCCCTCTC CCATAAGCCT
244
245
      GCCAAGAAGA TTGATGTGGC CCGTGTAACG TTTGATCTGT ACAAGCTGAA CCCACAGGAC
                                                                             600
246
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                                                                             660
      CTGCACTGCT GTGGGGCCAA GCGCATCATG AAGGAAGCTT TCCGCTGGGC CCTCTTCAGC
                                                                             720
247
      ATGCAGGCCA CAGGCCACGT ACTGCTTGGC ACCTCCTGTT ACCTGCAGCA GCTCCTCGAT
                                                                             780
248
      GCTACGGAGG AAGGGCAGCC CCCCAAGGGC AAGGCCTCAT CCCTTATCCC GACCTGTCTG
                                                                             840
249
      AAGATACTGC AGTGAAAGCC CAAGTCCTTG GAAGCTTTCC CCAGTGAAGG ACTGACTGGG
                                                                             900
250
      GGCCTCACGC TTAACTGGTA GTGCCCACAA GCCTGGCAGC TGTAGAGCCG CGAACCTCCC
                                                                            960
251
      CACACCTCCC TCACCGCGCA GGACCCTGAG TGAGGAGGAG GAGCTGGAAA CCTGGGGTGG
                                                                           1020
252
      GTTGGCCAAA GGAGAACCTC AAGCTCCTGG CCTGATCCAG CTCCTTCCTG CCCAAGGCAG
                                                                           1080
254
      CTTAGCCCAT CCAGACTGGT CCTGAAGTCT GTCCCTCCAT TGGCATGAAG TCTGCCCCTT
255
      AGCAATCCGG CCTCGCAGGC TGTACTTTCA TGGTGCTCTC TACCTTCTGG CCCCCATCCC
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GGAACATTCC TGAGTGAATT CGCAAGCGCA CTAGCATGTG ATATTAGGGA GTTTGCAATA

PAGE: 1

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/471,749

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Line

Error

Original Text